IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Cancelled).

Claim 2 (Currently Amended): A method of allocating radio resources, in a base station, to the base station and a mobile station, comprising the steps of:

obtaining a ratio between traffic of an uplink ~~for transmission from the mobile station to the base station~~ and traffic of a downlink ~~for transmission from the base station to the mobile station such that the ratio reflects empirical data~~;

allocating the radio resources to the uplink and downlink for the mobile station according to the ~~ratio~~ obtained ~~in the obtaining step~~ ratio; and

dividing time into a plurality of time periods corresponding to at least one of days of a week and hours of a day, and allocating empirical data regarding traffic of the uplink and traffic of the downlink to the respective time periods, wherein said step of obtaining a ratio obtains the ratio based on the empirical data corresponding to a present ~~with respect to each one of the time periods by deriving the ratio from traffic of the uplink of a corresponding time period and traffic of the downlink of the corresponding~~ time period and a current ratio between traffic of the uplink and traffic of the downlink based on current traffic.

Claim 3 (Cancelled).

Claim 4 (Currently Amended): The method as claimed in claim 2, further comprising the steps of:

obtaining ~~an instantaneous~~ the current ratio between traffic of the uplink and traffic of the downlink ~~for a second predetermined period immediately preceding a present instant~~

~~where the second predetermined period is shorter than the first predetermined period~~ based on current traffic; and

obtaining a weighted average of the empirical data corresponding to the present time period ~~the ratio averaged over the first predetermined period~~ and the ~~instantaneous~~ current ratio by weighting ~~the ratios~~ the empirical data and the current ratio with respective weighting factors, wherein said step of allocating the radio resources allocates the radio resources to the uplink and the downlink according to the weighted average.

Claim 5 (Previously Presented): The method as claimed in claim 2, further comprising a step of transmitting, to the mobile station, information about the radio resources with respect to at least one of the uplink and the downlink.

Claim 6 (Previously Presented): The method as claimed in claim 2, further comprising a step of allocating transmission power according to communication quality required for the uplink and the downlink.

Claim 7 (Cancelled).

Claim 8 (Currently Amended): A base station apparatus which communicates with a mobile station apparatus, comprising:

a computation unit which obtains a ratio between traffic of an uplink ~~for transmission from the mobile station to the base station~~ and traffic of a downlink ~~for transmission from the base station to the mobile station such that the ratio reflects empirical data~~; and

an allocation unit which allocates [[the]] radio resources to the uplink and the downlink according to the ratio ~~obtained by the computation unit~~, wherein time is divided

into a plurality of time periods corresponding to at least one of days of a week and hours of a day, and empirical data regarding traffic of the uplink and traffic of the downlink are allocated to the respective time periods, and said computation unit obtains the ratio based on the empirical data corresponding to a present ~~with respect to each one of the time periods by deriving the ratio from traffic of the uplink of a corresponding time period and traffic of the downlink of the corresponding~~ time period and a current ratio between traffic of the uplink and traffic of the downlink based on current traffic.

Claim 9 (Cancelled).

Claim 10 (Currently Amended): The base station apparatus as claimed in claim 8, wherein said computation unit further obtains ~~an instantaneous~~ the current ratio between traffic of the uplink and traffic of the downlink based on current traffic ~~for a second predetermined period immediately preceding a present instant where the second predetermined period is shorter than the first predetermined period~~, and obtains a weighted average of the empirical data corresponding to the present time period and the current ~~the ratio averaged over the first predetermined period and the instantaneous~~ ratio by weighting the empirical data and the current ratio ~~ratios~~ with respective weighting factors, and wherein said allocation unit allocates the radio resources to the uplink and the downlink according to the weighted average.

Claim 11 (Previously Presented): The base station apparatus as claimed in claim 8, further comprising a reporting control unit which transmits, to the mobile station, information about the radio resources with respect to at least one of the uplink and the downlink.

Claim 12 (Previously Presented): The base station apparatus as claimed in claim 8, wherein the allocation unit allocates transmission power according to communication quality required for the uplink and the downlink.